


FORM PTO-1190 (Modified) (REV. 07-2004)		U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE		ATTORNEY'S DOCKET NUMBER 258011US0XPCT
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/506604
INTERNATIONAL APPLICATION NO. PCT/EP03/01114		INTERNATIONAL FILING DATE 5 February 2003		PRIORITY DATE CLAIMED 12 March 2002
TITLE OF INVENTION INJECTION MOLDINGS WITH SELF-CLEANING PROPERTIES AND A PROCESS FOR PRODUCING THESE INJECTION MOLDINGS				
APPLICANT(S) FOR DO/EO/US NUN Edwin et al.				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c) (2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. <input type="checkbox"/> A copy of the International Search Report (PCT/ISA/210). <p>Items 13 to 23 below concern document(s) or information included:</p> <ol style="list-style-type: none"> 13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 16. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 17. <input type="checkbox"/> A substitute specification. 18. <input type="checkbox"/> A power of attorney and/or change of address letter. 19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 22. <input type="checkbox"/> Express Mail Label No. 23. <input checked="" type="checkbox"/> Other items or information: <p>PCT/IB/304/Notice of Priority/PCT/IB/308 Application Data Sheet/Drawings (1 sheet) Cited References (5)/PTO-1449</p>				

INJECTION MOLDED BODY HAVING SELF-CLEANING PROPERTIES, AND METHOD FOR PRODUCING INJECTION MOLDED BODIES OF THIS TYPE


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 WO03076169 (A3)


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Cited documents:

 WO9604123 (A1)

 EP0933388 (A2)

 EP1063071 (A2)

 US5997675 (A)

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Abstract of WO 03076169 (A2)

The invention relates to injection molded bodies with surfaces having self-cleaning properties, and to a simple method for producing these self-cleaning surfaces. The inventive method is simple by virtue of the fact that it can involve the use of existing tools. Injection molded parts are generally produced by using injection molds into which the material is injected. The inventive method uses this technique by applying microparticles to the injection mold before the actual injection molding whereby, during injection molding, these particles are transferred to the injection molded part while being pressed into the surface thereof. The inventive method makes it possible to obtain self-cleaning surfaces comprising particles with a fissured structure without having to apply an additional embossed layer or foreign material supporting layer to the shaped bodies.; Inventive injection molded bodies can be three-dimensional articles of almost any type.

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